



## RAW SEQUENCE LISTING

DATE: 02/26/2002

PATENT APPLICATION: US/09/960,738A

TIME: 13:59:55

Input Set : A:\032301.218.ST25.txt

Output Set: N:\CRF3\02262002\I960738A.raw

```

3 <110> APPLICANT: BATHE, Brigitte, et al.
5 <120> TITLE OF INVENTION: NUCLEOTIDE SEQUENCES WHICH CODE FOR THE ppkK GENE
7 <130> FILE REFERENCE: 032301 WD 218
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/960,738A
C--> 9 <141> CURRENT FILING DATE: 2001-09-24
9 <160> NUMBER OF SEQ ID NOS: 2
11 <170> SOFTWARE: PatentIn version 3.1
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 1239
15 <212> TYPE: DNA
16 <213> ORGANISM: Corynebacterium glutamicum
18 <220> FEATURE:
19 <221> NAME/KEY: CDS
20 <222> LOCATION: (237)..(1022)
21 <223> OTHER INFORMATION:
24 <400> SEQUENCE: 1
25 ggccgaagtt cctgcaacct attggcgata aaatcttcag ccaaagtatc tactatcgtc      60
27 accggatcga ctgtcgaaact tttggtgttg gtgtagtccc acaaattggt gagttcagca      120
29 cgcttatccc tgatacgta acgcgtaagc gtggcagttt ccgcggcgat ggcacgcaac      180
31 tcattaaacg attgttggtc cataagacca tcatcgttgt ttttttagaa aattgc ctg      239
32                                     Met
33                                     1
35 cca aaa gcc gaa gta att tgt aca ctt ggg cgc atg act gag act gga      287
36 Pro Lys Ala Glu Val Ile Cys Thr Leu Gly Arg Met Thr Glu Thr Gly
37           5                10                15
39 ttt gga att gat atc ggt ggc tcc ggc atc aaa ggc gcc cgc gtt aac      335
40 Phe Gly Ile Asp Ile Gly Gly Ser Gly Ile Lys Gly Ala Arg Val Asn
41       20                25                30
43 ctt aag acc ggt gag ttt att gat gaa cgc ata aaa atc gcc acc cct      383
44 Leu Lys Thr Gly Glu Phe Ile Asp Glu Arg Ile Lys Ile Ala Thr Pro
45       35                40                45
47 aag cca gca acc cca gag gct gtc gcc gaa gta gtc gca gag att att      431
48 Lys Pro Ala Thr Pro Glu Ala Val Ala Glu Val Val Ala Glu Ile Ile
49 50                55                60                65
51 tct caa gcc gaa tgg gag ggt ccg gtc gga att acc ctg ccg tcg gtc      479
52 Ser Gln Ala Glu Trp Glu Gly Pro Val Gly Ile Thr Leu Pro Ser Val
53       70                75                80
55 gtt cgc ggg cag atc gcg cta tcc gca gcc aac att gac aag tcc tgg      527
56 Val Arg Gly Gln Ile Ala Leu Ser Ala Ala Asn Ile Asp Lys Ser Trp
57       85                90                95
59 atc gcc acc gat gtg cac gaa ctt ttt gac cgc cac cta aat ggc cga      575
60 Ile Gly Thr Asp Val His Glu Leu Phe Asp Arg His Leu Asn Gly Arg
61       100               105               110

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/960,738A

DATE: 02/26/2002

TIME: 13:59:55

Input Set : A:\032301.218.ST25.txt

Output Set: N:\CRF3\02262002\I960738A.raw

```

63 gag atc acc gtt ctc aat gac gca gac gcc gcc gcc atc gcc gaa gca      623
64 Glu Ile Thr Val Leu Asn Asp Ala Asp Ala Ala Gly Ile Ala Glu Ala
65      115      120      125
67 acc ttt ggc aac cct gcc gca cgc gaa gcc gca gtc atc ctg ctg acc      671
68 Thr Phe Gly Asn Pro Ala Ala Arg Glu Gly Ala Val Ile Leu Leu Thr
69 130      135      140      145
71 ctt ggt aca ggt att gga tcc gca ttc ctt gtg gat gcc caa ctg ttc      719
72 Leu Gly Thr Gly Ile Gly Ser Ala Phe Leu Val Asp Gly Gln Leu Phe
73      150      155      160
75 ccc aac aca gaa ctc ggt cac atg atc gtt gac gcc gag gaa gca gaa      767
76 Pro Asn Thr Glu Leu Gly His Met Ile Val Asp Gly Glu Glu Ala Glu
77      165      170      175
79 cac ctt gca gca gca tcc gtc aaa gaa aac gaa gat ctg tca tgg aag      815
80 His Leu Ala Ala Ala Ser Val Lys Glu Asn Glu Asp Leu Ser Trp Lys
81      180      185      190
83 aaa tgg gcg aag cac ctg aac aag gtg ctg agc gaa tac gag aaa ctt      863
84 Lys Trp Ala Lys His Leu Asn Lys Val Leu Ser Glu Tyr Glu Lys Leu
85      195      200      205
87 ttc tcc cca tcc gtc ttc atc atc ggt gcc gga att tcc aga aag cac      911
88 Phe Ser Pro Ser Val Phe Ile Ile Gly Gly Gly Ile Ser Arg Lys His
89 210      215      220      225
91 gaa aag tgg ctt cca ttg atg gag cta gac act gac att gtc cca gct      959
92 Glu Lys Trp Leu Pro Leu Met Glu Leu Asp Thr Asp Ile Val Pro Ala
93      230      235      240
95 gag ctg cgc aat cga gcc gga atc gta gga gct gcc atg gca gta aac      1007
96 Glu Leu Arg Asn Arg Ala Gly Ile Val Gly Ala Ala Met Ala Val Asn
97      245      250      255
99 caa cac ctc acc cca taagttatcg aaaggtgatt ttgcccagg gccttgattc      1062
100 Gln His Leu Thr Pro
101      260
103 acaacgcacc ttgctgtagg aaaaacaggc ccctttgtga catcggcgta gttgttcaac      1122
105 tataatggaa cgctgacgt ggacaagagt taaccatgag attgattcac ccctttaagc      1182
107 ctccaaagaa gtatgtgact caacgcattt cggcatttaa aaaagccgag agcaaat      1239
110 <210> SEQ ID NO: 2
111 <211> LENGTH: 262
112 <212> TYPE: PRT
113 <213> ORGANISM: Corynebacterium glutamicum
115 <400> SEQUENCE: 2
117 Met Pro Lys Ala Glu Val Ile Cys Thr Leu Gly Arg Met Thr Glu Thr
118 1      5      10      15
121 Gly Phe Gly Ile Asp Ile Gly Gly Ser Gly Ile Lys Gly Ala Arg Val
122      20      25      30
125 Asn Leu Lys Thr Gly Glu Phe Ile Asp Glu Arg Ile Lys Ile Ala Thr
126      35      40      45
129 Pro Lys Pro Ala Thr Pro Glu Ala Val Ala Glu Val Val Ala Glu Ile
130      50      55      60
133 Ile Ser Gln Ala Glu Trp Glu Gly Pro Val Gly Ile Thr Leu Pro Ser
134 65      70      75      80
137 Val Val Arg Gly Gln Ile Ala Leu Ser Ala Ala Asn Ile Asp Lys Ser

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/960,738A

DATE: 02/26/2002

TIME: 13:59:55

Input Set : A:\032301.218.ST25.txt

Output Set: N:\CRF3\02262002\I960738A.raw

138		85		90		95
141	Trp Ile Gly Thr Asp Val His Glu Leu Phe Asp Arg His Leu Asn Gly					
142		100		105		110
145	Arg Glu Ile Thr Val Leu Asn Asp Ala Asp Ala Ala Gly Ile Ala Glu					
146		115		120		125
149	Ala Thr Phe Gly Asn Pro Ala Ala Arg Glu Gly Ala Val Ile Leu Leu					
150		130		135		140
153	Thr Leu Gly Thr Gly Ile Gly Ser Ala Phe Leu Val Asp Gly Gln Leu					
154	145		150		155	160
157	Phe Pro Asn Thr Glu Leu Gly His Met Ile Val Asp Gly Glu Glu Ala					
158		165		170		175
161	Glu His Leu Ala Ala Ala Ser Val Lys Glu Asn Glu Asp Leu Ser Trp					
162		180		185		190
165	Lys Lys Trp Ala Lys His Leu Asn Lys Val Leu Ser Glu Tyr Glu Lys					
166		195		200		205
169	Leu Phe Ser Pro Ser Val Phe Ile Ile Gly Gly Gly Ile Ser Arg Lys					
170		210		215		220
173	His Glu Lys Trp Leu Pro Leu Met Glu Leu Asp Thr Asp Ile Val Pro					
174	225		230		235	240
177	Ala Glu Leu Arg Asn Arg Ala Gly Ile Val Gly Ala Ala Met Ala Val					
178		245		250		255
181	Asn Gln His Leu Thr Pro					
182		260				

## VERIFICATION SUMMARY

DATE: 02/26/2002

PATENT APPLICATION: US/09/960,738A

TIME: 13:59:56

Input Set : A:\032301.218.ST25.txt

Output Set: N:\CRF3\02262002\I960738A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date